

QIBA fMRI Biomarker Committee (BC) Call

Wednesday, December 15, 2021, at 11 a.m. (CT)

Call Summary

In attendance

Feroze Mohamed, PhD (Co-chair)

Jay Pillai, MD (Co-chair)

David Soltysik, PhD (Co-chair)

Shruti Agarwal, PhD

Michael Boss, PhD

Andrew Kalnin, MD

Nancy Obuchowski, PhD

James Voyvodic, PhD

Yuxiang Zhou, PhD, DABR

RSNA staff

Joe Koudelik

Julie Lisiecki

Review of Previous Call Summary

- The 11.17.2021 call summary was approved as presented

Topics Discussed:

- Considerations for hemispheric lateralization are somewhat different from those for language localization, and profile claims will be based on available data
- ROI selection methodology should be based on available data
- Question of functional specificity regarding which areas are critical for language function
 - Different activation areas are considered for expressive and receptive speech
 - Profile focus should be on Broca's area and Wernicke's area to maintain simplicity and high functional specificity
 - Ancillary language areas can be mentioned in an appendix and may be included in larger expressive and receptive ROIs
- Laterality index calculation
 - Activation is normalized using AMPLE methodology using symmetric expressive and receptive bilateral ROIs encompassing frontal and temporoparietal regions, respectively
 - Laterality index is calculated after applying the AMPLE 50% threshold

Next Steps / Action Items:

- Dr. Voyvodic's ROI illustrations / images will be added to the Profile to help guide users
- Dr. Voyvodic's data will be instrumental as basis for Claim
- Dr. Soltysik to follow up individually with BC members re: Profile edits
- Discussion on Region of Interest identification to be continued during an upcoming call

Next call: Wednesday, January 5, 2022, at 11 a.m. CT (1st & 3rd weeks of each month)

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